



# City of Columbus, Indiana

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## Wireless Columbus *Request for Information*

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Date of Last Revision: Tuesday, March 13, 2007

RFI Release Date:	Thursday, March 15, 2007
Submission Deadline:	Tuesday, April 17, 2007

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# 1. Introduction

## 1.1. Background

Columbus, Indiana, is an internationally recognized, architecturally significant community located within the Indianapolis, Louisville and Cincinnati triangle. It would be just another small Midwestern city except for the vision and cooperation of public, private and corporate leaders who are striving to make Columbus the best community they can create.<sup>1</sup>

With broadband availability becoming paramount in attracting and retaining businesses, cities are realizing that these services are no longer a luxury, but a necessity to remain competitive and therefore attractive. It is the vision of the City of Columbus that telecommunications infrastructure and services become enablers for commerce and further economic growth.

In an effort to continue to promote the attractiveness and economic viability of Columbus, Mayor Armstrong, through his Technology Advisory Committee (TAC), has created the *eCOLUMBUS* initiatives (Table 1) to encourage the availability of world class telecommunications infrastructure and services for Columbus area businesses and residents.

Initiative	Description	Status
Greater Columbus Conduit System	Establish a city-wide conduit system to serve as a platform for accelerating the delivery of world class telecommunications services to the Columbus area.	Phase 1: 2Q2007 completion Subsequent Phases: TBD
Wireless Columbus	Establish Columbus as a world class wireless community by strategically leveraging vertical real estate (radio/television/cellular/water towers, building façades) within greater Columbus.	RFI released 03/14/2007 (herein) RFP release ~2Q2007
Fiber-to-the-Curb (Commercial)	Utilize the <i>Greater Columbus Conduit System</i> to establish world class triple play (voice, video and data) fiber-to-the-curb service tailored for Columbus area education, government, industry and social service sectors.	RFP released 02/14/2007 Solutions due: 03/27/2007
Fiber-to-the-Home (Residential)	Build on the components and success of the <i>Fiber-to-the-Curb</i> initiative and offer a world class triple play (voice, video and data) fiber-to-the-home service tailored for Columbus area residents.	RFP released 02/14/2007 Solutions due: 03/27/2007
Inter-Community Fiber	Establish a fiber optic connection with adjacent technologically savvy communities such as Indianapolis, Shelbyville, Bloomington, and Louisville to further improve information transfer within the region as well as position Columbus to create a hub for telecommunication within south-central Indiana.	TBD

**Table 1 – eCOLUMBUS Initiatives**

<sup>1</sup> Columbus, Indiana Convention and Visitors Bureau. Columbus Area Visitors Center. Accessed: January 29, 2007. [<http://www.columbus.in.us/>]

## **1.2. Project Objectives**

The City of Columbus has the following objectives for *Wireless Columbus*:

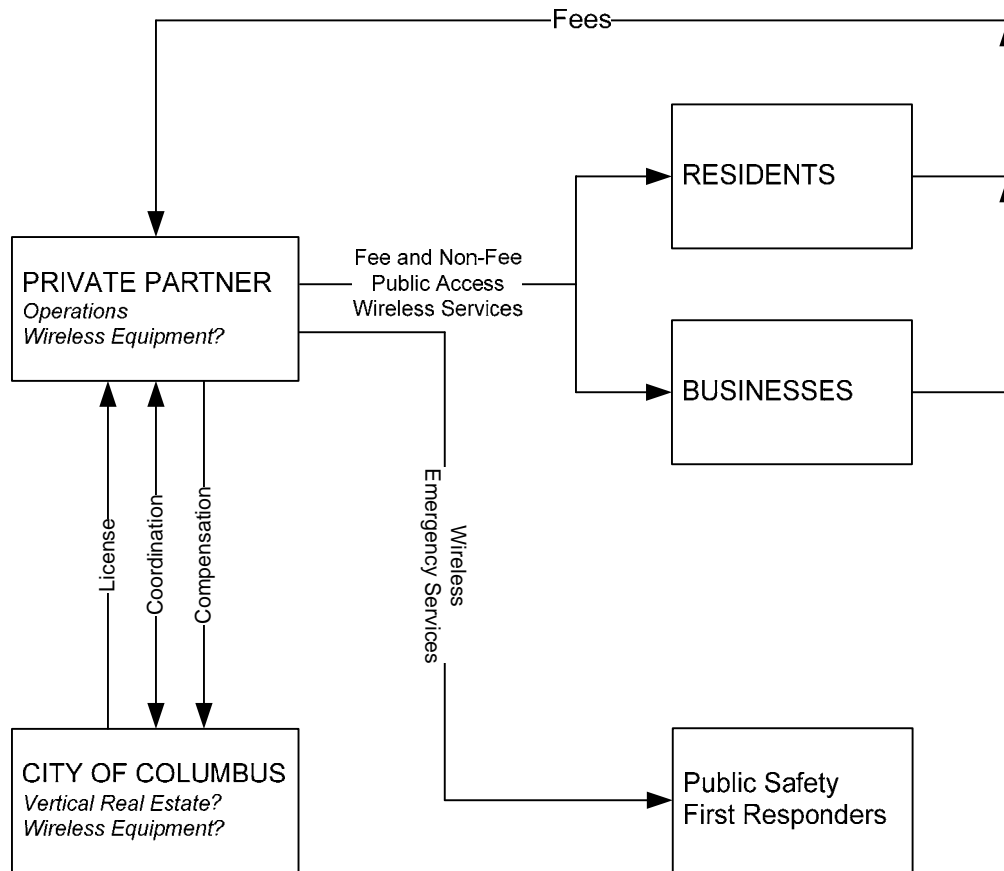
- Achieve world class status for its telecommunications infrastructure and services commensurate with its other world class attributes;
- Ensure that Columbus residents, businesses and visitors have readily available access to reliable world class voice, video and data services at a reasonable price;
- Create an economic advantage for Columbus residents, businesses and visitors; and
- Encourage the creation of commerce and further economic development growth.

In addition to these objectives, Columbus anticipates that the *Wireless Columbus* will provide at least the following benefits to the community:

- Improve public safety communications, awareness and responsiveness;
- Stimulate commercial and residential growth;
- Promote innovative solutions for Columbus consumers;
- Improve the Columbus experience for visitors; and
- Promote the Columbus brand/image.

## **1.3. Business Model**

The City of Columbus seeks a public-private partnership with the private sector to assist in the design, deployment and operation of a Columbus branded wireless service that would include a public safety access component for emergency responders (e.g. police, fire) as well as a public access retail component for businesses and residents. While a firm business model for *Wireless Columbus* has not yet been established, in principle the following high level business model (Figure 1) illustrates the potential relationship between the City of Columbus and a yet to be determined private partner.



**Figure 1 – High Level Business Model**

The City of Columbus seeks to facilitate a public-private partnership whereby:

- The City of Columbus would provide financial support through wireless infrastructure ownership the deployment *Wireless Columbus*, providing to private partner a license to utilize this infrastructure in exchange for compensation.
- Utilizing said access to the *Wireless Columbus* system, the service provider partner would be responsible for all necessary wireless network design, installation, operation and customer service functions to support both a public safety network for emergency responders (e.g. police, fire) and a public access retail network for public access (residents, businesses and visitors).

The City of Columbus will specify further requirements in Section 6 of this RFI regarding the use of City assets, minimum service requirements, coverage areas and technology standards.

In summary, Table 2 details the high level roles and responsibilities belonging to the City of Columbus and the yet to be determined service provider as related to the deployment the system.

Responsibility	City of Columbus	Private Partner
<b>Wireless Network Infrastructure</b>		
Design		✓
Installation	✓?	✓?
Ownership	✓?	✓?
Maintenance		✓
<b>Service Provider Network Infrastructure</b>		
Design		✓
Installation		✓
Ownership		✓
Maintenance		✓
<b>Customer Premise Equipment</b>		
Installation		✓
Ownership		✓
Maintenance		✓
<b>Operations</b>		
Customer service		✓
Network operations		✓
Marketing	✓?	✓?

**Table 2 – Roles and Responsibilities**

? = potential City of Columbus Responsibility

## 2. General Instructions

### 2.1. General Invitation

The City of Columbus hereby invites Respondents to submit information regarding equipment and service provider qualifications for the deployment of the *Wireless Columbus* system. Submissions are solicited in accordance with the terms, conditions and instructions set forth in this RFI.

All materials related to the RFI will be available on the World Wide Web at <http://columbus.in.gov/TAC>.

In the event a Respondent does not have download capability, all materials may be obtained from the City of Columbus Clerk Treasurer, located at City Hall, 123 Washington Street, Columbus, IN 47201.

Respondent must submit any questions concerning the RFI no later than Thursday, March 29, 2007 at 4:00 PM EST. Responses to Respondent questions will be posted to <http://columbus.in.gov/TAC> no later than Thursday, April 05, 2007. The City of Columbus Clerk Treasurer will receive submissions at City Hall, 123 Washington Street, Columbus, IN 47201 until Tuesday, April 17, 2007 at 10:00 AM. No submissions will be accepted after the stated deadline.

Submissions must be in a sealed envelope.

### 2.2. Submittal Procedure

1. Respondent must submit nine (9) copies of its submission, plus one (1) printed original, signed in ink, plus one (1) CD-ROM or DVD-ROM including a PDF version of its submission, in a sealed envelope. Respondent may elect to either personally deliver, or mail, its sealed submissions to the address provided below.

*Personal or Mail Delivery:*

Technology Advisory Committee  
C/o City of Columbus Clerk Treasurer  
City Hall  
123 Washington Street  
Columbus, IN 47201

2. To be assured of consideration, Submissions must be received by the City of Columbus Clerk Treasurer, located at City Hall, 123 Washington Street, Columbus, IN 47201 no later than 10:00 AM EST on Tuesday, April 17, 2007. The Clerk's Office can be reached at (812) 376-2510. The City of Columbus may, but is not required to accept Submissions that are not received by the date and time set forth in this section. Respondent may submit its submission at any time prior to the above stated deadline. Failure to submit the

required number of copies by this deadline may be cause for disqualification from the RFI process. The original documents shall be clearly marked as “ORIGINAL”, and must bear the original signature of an authorized corporate agent on all documents requiring a signature. Respondent must enclose all documents in sealed envelopes or boxes.

3. Failure by a messenger delivery service or printing service to meet the deadline will not excuse the Respondent from the deadline requirement. Personally delivered Submissions must be delivered to the City of Columbus Clerk Treasurer, located at City Hall, 123 Washington Street, Columbus, IN 47201. The time of receipt of all Submissions will be determined solely by the clock located in the Clerk’s Treasurer’s Office. It is the Respondent’s sole responsibility to ensure that the Submission is received as required. All submissions are subject to the Freedom of Information Act. The outside of each sealed envelope or package must be labeled as follows:

Submission Enclosed  
Request for Information (RFI) for Wireless Columbus  
Due: Tuesday, April 17, 2007  
Submitted by: (Name of Respondent)  
Package \_\_\_\_ of \_\_\_\_

4. Additionally, the Respondent must submit one (1) electronic copy of its submission to [info@infocommsystems.net](mailto:info@infocommsystems.net) by 10:00 AM EST on Tuesday, April 17, 2007. A reply message will be sent to the Respondent acknowledging receipt. Email submission alone is not representative of an official submission. Respondent must follow the sealed submission policy and procedures outlined above for its submission to be considered official.
5. All sealed submission received by 10:00 AM EST on Tuesday, April 17, 2007 will be opened in a public forum at 10:00 AM EST on Tuesday, April 17, 2007 at City Hall.
6. The City of Columbus reserves the right to terminate this RFI solicitation at any stage if determined to be in the best interests of the community. The receipt of Submission or other documents will in no way obligate the City of Columbus to enter into an agreement of any kind with any party.

### **2.3. Additional Information and Questions**

Respondent must communicate only with the City of Columbus primary contact, Brent Engle. All questions, requests for clarification or additional information must be in writing via email sent to the attention of Brent Engle at [info@infocommsystems.net](mailto:info@infocommsystems.net) and must be received no later than 4:00 PM EST on Thursday, March 29, 2007. Questions received from all Respondents will be answered and posted on the World Wide Web at <http://columbus.in.gov/TAC> by Thursday, April 05, 2007. Any changes to the RFI or the RFI process will also be posted to the website as addenda. No telephone calls or emails will be accepted unless the questions are general in nature. A Respondent that deviates from any of these restrictions may be subject to immediate disqualification from this RFI process.



## **2.4. Addenda & Modifications**

All addenda, amendments, and interpretations to this solicitation will be in writing. Any amendment or interpretation that is not in writing will not legally bind the City of Columbus. Only information supplied by the City of Columbus in writing or in this RFI should be used in preparing responses. All contacts that a Respondent may have had before or after receipt of this RFI with any individuals, employees, subcontractors, consultants or representatives of the City of Columbus and any information that may have been read in any news media or seen or heard in any communication facility regarding this RFI should be disregarded in preparing responses.

The City of Columbus does not assume responsibility for the receipt of any addendum sent to the Respondent.

If it becomes necessary to revise or expand upon any part of this RFI, a notification of addendum will be posted on <http://columbus.in.gov/TAC> along with a link to download the addendum document. The City of Columbus will also email a notification of addendum to those perspective Respondents that submit their contact information (including email address) to [info@infocommsystems.net](mailto:info@infocommsystems.net).

The addendum may include, but will not be limited to, the following:

1. Responses to questions and requests for clarification sent via email according to the provisions of Section 2.3 herein; or
2. Responses to questions and requests for clarification raised by the deadline for submission of questions.

## **2.5. Examination of Documents and Requirements**

Each Respondent will carefully examine all RFI documents and thoroughly familiarize themselves with all requirements prior to submitting a submission to ensure that the submission meets the intent of this RFI. Before submitting a submission, each Respondent will be responsible for making all investigations and examinations necessary to ascertain conditions and requirements affecting the requirements of this RFI. Failure to make such investigations and examinations will not relieve the Respondent from the obligation to comply, in every detail, with all provisions and requirements of the RFI.

## **2.6. Process**

The focus of this RFI process is for the City of Columbus to better understand the range of wireless technology, service provider operations and partnership alternatives available for the creation of the *Wireless Columbus* system. After careful examination of Respondent information submissions, TAC will formulate formal technical and business model requirements and incorporate these requirements in an RFP for *Wireless Columbus* development that will be released 02Q/2007.

## **2.7. Terms, Conditions, Limitations and Exceptions**

1. This RFI does not commit the City of Columbus to award a contract, issue a Purchase Order, or to pay any costs incurred in the preparation of a submission in response to this request. Furthermore, the City of Columbus will not be responsible for any costs or damages incurred by Respondents, member(s), partners, subcontractors or other interested parties in connection with the RFI process, including but not limited to costs associated with preparing the Submission and/or of participating in any site visits, oral presentations or negotiations, nor any other costs incurred by Respondent related to the development of and/or submission of the information requested in this RFI.
2. The City of Columbus will not be held accountable if material from submissions is obtained without the written consent of the Respondent by parties other than the City of Columbus, at any time during the submission evaluation process.
3. Respondent may designate those portions of the Submission that contain trade secrets or other proprietary data that must remain confidential provided however, that the Respondent acknowledges and understands that the City is subject to Indiana's Open Door Law at I.C. 5-14-1.5-1 et seq. and so the City cannot agree to not disclose any documents that it is required to disclose under this law. If a Respondent includes data that is not to be disclosed to the public for any purpose or used by the City of Columbus except for evaluation purposes, the Respondent must:
  - a. Mark the title page as follows: "This RFI submission includes trade secrets or other proprietary data ("data") that may not be disclosed outside Columbus and may not be duplicated, used or disclosed in whole or in part for any purpose other than to evaluate this Submission. The data subject to this restriction are contained in sheets (insert page numbers or other identification)." The City of Columbus, for purposes of this provision, will include any consultants assisting in the evaluation of Submissions. If, however, a contract is awarded to this Respondent as a result of or in connection with the submission of this data, the City of Columbus has the right to duplicate, use, or disclose the data to the extent provided in the resulting contract. This restriction does not limit the City of Columbus from using information contained in the data if it is obtained from another source without restriction.
  - b. Mark each sheet or data to be restricted with the following legend: "Use or disclosure of data contained on this sheet is subject to the restriction on the title page of this Submission."
4. All submissions are subject to the Freedom of Information Act.
5. Respondent(s) will not offer any gratuities, favors, or anything of monetary value to any individual, employee, subcontractor, consultant or representative of the City of Columbus (including any and all members of submission evaluation committees).
6. Respondent(s) will not collude in any manner, or engage in any practices, with any other Respondent(s), which may restrict or eliminate competition or otherwise restrain trade. This is not intended to preclude subcontracts and joint ventures for the purposes of: a) responding to this RFI, or b) establishing a project team with the required experience and/or capability to provide the goods or services specified herein.
7. All submissions submitted must be the original work product of the Respondent. The copying or paraphrasing of the work product of another Respondent is not permitted.

8. Respondent, its authorized representatives, and its agents are responsible for obtaining, and will be deemed to have, full knowledge of the conditions, Requirements, and specifications of the RFI at the time a Submission is delivered to the City of Columbus.
9. The City of Columbus has sole discretion and reserves the right to cancel this RFI.
10. The City of Columbus reserves the right to request clarification of any submission after all submissions have been received.

## 2.8. Schedule

Listed on the following page are important target dates and times by which actions related to this RFI will be completed. Note that these target dates are subject to change by the City of Columbus.

Event	Date	Time
Date of Issue of RFI	Thursday, March 15, 2007	
Written Questions from Respondent Due	Thursday, March 29, 2007	4:00 PM EST
Responses to Questions Due to Respondent	Thursday, April 05, 2007	
Submissions from Respondent Due	Tuesday, April 17, 2007	10:00 AM EST
Official Opening of Sealed Submissions	Tuesday, April 17, 2007	10:00 AM EST

**Table 3 – Wireless Columbus RFI Schedule**

## **3. Submission Format & Required Content**

### **3.1. Submission Format**

Submissions must be prepared on 8 ½" x 11" letter size paper, printed double-sided, and bound on the long side. Sections shall be separated by labeled tabs and organized in accordance with subject matter sequence as set forth below. Each page of the Submission must be numbered in a manner so as to be uniquely identified.

Respondents are advised to adhere to the submittal requirements of the RFI.

All submissions should be electronically generated and the printed original signed in ink. Legibility, clarity and completeness are important and essential.

One (1) CD-ROM or DVD-ROM containing an Adobe Portable Document Format (PDF) version of all submission materials must also be provided.

### **3.2. Required Content**

#### **A. Cover Letter of Introduction and Executive Summary**

Respondent must submit a letter of introduction and an executive summary of the submission. The letter of introduction must be signed by a person authorized by Respondent's firm to obligate your firm to make the commitments contained in the submission. Submission of the letter will constitute a representation by the Respondent's firm that the firm is capable performing the commitments contained in the submission.

The executive summary will explain Respondent's understanding of the City's intent and objectives and how Respondent's Submission would achieve those objectives, especially those objectives outlined in Section 1.2 of this RFI. The summary must discuss Respondent's potential for implementing and monitoring the Services; approach to project management; strategies, tools and safeguards for ensuring performance of all required Services; equipment, software and firmware considerations; training and ongoing support; and any additional factors for Columbus consideration.

Respondent's cover letter must be signed by an authorized representative of the entity committing Respondent to provide the Services as described in this RFI in accordance with the terms and conditions of any contract awarded pursuant to the RFI process. The cover letter must:

1. Indicate the number of years the entity has been in business, and provide an overview of the experience and background of the entity and its key personnel committed to this project.

2. Identify the legal name of the entity, its headquarters address, its principal place of business, its legal form (i.e., corporation, joint venture, limited partnership, etc.), and the names of its principals or partners and authority to do business in Indiana.
3. Indicate the name and telephone number(s) of the principal contact for oral presentation, or negotiations.
4. Identify participants in Respondent's "Team." For example if Respondent is a business entity that is comprised of more than one legal participant (e.g., Respondent is a general partnership, joint venture, etc.), then Respondent must identify or cause to be identified all participants involved, respective ownership percentages, and summarize the role, degree of involvement, and experience of each participant separately. If Respondent has a prime contractor / subcontractor relationship instead, this information regarding role, involvement and experience is also required for any subcontractor that is proposed to provide a significant portion of the work.

## **B. Company Profile Information**

Respondent must also submit a brief description of Respondent's firm which will include:

1. Name, mailing address, email address, telephone number and fax number of the primary contact person for your firm;
2. A brief description of your firm, including the number of years in business, major business lines, major markets served, company history, relevant operating segments, primary vision and strategy, number of employees, office locations and any Joint Venture Partners;
3. Also, as required by Exhibit A, Respondent must provide references (preferably at least 3, and preferably from municipalities on contracts of similar scope and magnitude as described in this RFI) performed by the Respondent's firm including client, reference and telephone numbers, staff members who worked on each project, budget, schedule and project summary. Descriptions should be limited to one page for each project. If Joint Venture Partners are proposed, provide references for each. Experience will not be considered unless complete reference data is provided. At a minimum, the following information must be included for each client reference:
  - a. Client name, address, contact person name, email address, telephone, and fax number.
  - b. Description of services provided similar to the services outlined in this RFI.
  - c. Nature and extent of Respondent's involvement as the prime contractor. Identify services, if any, subcontracted, and to what other company.
  - d. Total dollar value of the contract.
  - e. Contract term (Start and Expiration).

The City may solicit relevant information concerning Respondent's record of past performance from previous clients, including the City of Columbus, or any other available sources;

## **C. Solution Description**

Provide information on your firm's potential solution to address the following:

1. A description of the solution that is being proposed to meet the Requirements stated in Section 6. Respondent will enumerate its responses according to the outline in this Section; and

As long as the aforementioned solution requirements are met and only if the aforementioned solution requirements are met, Respondents may take the opportunity to propose an alternative or secondary solution for TAC consideration. If an alternative or secondary solution is proposed without first meeting all the required solution guidelines, it will not be considered.

## **D. Potential Deployment Plan**

Respondent will provide a deployment plan with high level tasks for deployment over a proposed period of time. Respondent will also describe the project management methodology that will be used to execute on the deployment plan.

Respondent must include a high level description of the process by which it will provide the Services as described in this RFI.

### **1. Project Timeline**

All responses should, at a minimum, reference the anticipated timeline for this project.

### **2. Organization Chart**

Include an organization chart which clearly illustrates all firms (joint venture partners, if any, subcontractors); relationships in terms of proposed Services; and key personnel involved and the following information:

1. A chart which identifies not only the proposed organizational structure, but also key personnel by name and title. Staffing levels of each organizational unit should be estimated.
2. The specific role of each of the firms in a team or joint venture for each task/work activity must be described.

## **E. Dedicated Resources**

1. Describe facilities, equipment, personnel, communication technologies and other resources available for implementing any proposed Services.
2. Staffing requirements. Provide an assessment of staffing needs for each major activity area by job title and function. The assessment should include fulltime equivalents for professional staff and supervisors committed to Columbus.

## 4. Columbus Overview

### 4.1. Summary<sup>2</sup>

“Columbus, Indiana, is an internationally recognized, architecturally significant community located within the Indianapolis, Louisville and Cincinnati triangle. It would be just another small Midwestern city except for the vision and cooperation of public, private and corporate leaders who are striving to make Columbus the best community they can create.”

Located just 45 miles south of Indianapolis, Columbus is ranked #6 in the U.S. for architecture innovation and design. The city has public art by renowned artists and nationally recognized gardens and landscaping, which includes an amazing park system. It's a place with a world-class golf course, outstanding athletic facilities, great fun for families and wonderful shopping.

Columbus won the highly competitive 2006 America in Bloom national competition for the population category 25,001-50,000. Eight core categories were judged, such as heritage, urban forestry and floral displays. The city won on its first attempt, which is a very uncommon achievement. It was also chosen "Best of the Best" for landscape design, citing Irwin Gardens, national landscape design awards and the city's park and trail system.”

With broadband availability becoming paramount in attracting and retaining businesses, cities of all sizes are realizing that these services are no longer a luxury, but a necessity to remain competitive and therefore attractive. It is the vision of Mayor Armstrong that telecommunications infrastructure and services become enablers for commerce and further economic growth within the City of Columbus.

### 4.2. Geography

Columbus is located at 39°12'50"N, 85°54'40"W (39.213998, -85.911056). The Driftwood and Flatrock Rivers join at Columbus to form the East Fork of the White River.

According to the United States Census Bureau, the city has a total area of 68.3 km<sup>2</sup> (26.4 mi<sup>2</sup>). 67.2 km<sup>2</sup> (26.0 mi<sup>2</sup>) of it is land and 1.1 km<sup>2</sup> (0.4 mi<sup>2</sup>) of it (1.59%) is water.

### 4.3. Demographics

“Columbus is the county seat of Bartholomew County. As of the 2000 census, the population of Columbus was 39,059 people, 15,985 households, and 10,563 families.”

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<sup>2</sup> Columbus, Indiana Convention and Visitors Bureau. Columbus Area Visitors Center. Accessed: January 29, 2007. [<http://www.columbus.in.us/>]

### **4.3.1. Households**

There were 15,985 households out of which 31.8% had children under the age of 18 living with them, 51.9% were married couples living together, 11.0% had a female householder with no husband present, and 33.9% were non-families. 29.1% of all households were made up of individuals and 10.7% had someone living alone who was 65 years of age or older. The average household size was 2.39 and the average family size was 2.94.

### **4.3.2. Ages**

In the city the population was spread out with 25.7% under the age of 18, 8.0% from 18 to 24, 29.5% from 25 to 44, 23.0% from 45 to 64, and 13.7% who were 65 years of age or older. The median age was 36 years. For every 100 females there were 92.8 males. For every 100 females age 18 and over, there were 89.6 males.

### **4.3.3. Income**

The median income for a household in the city was \$41,723, and the median income for a family was \$52,296. Males had a median income of \$40,367 versus \$24,446 for females. The per capita income for the city was \$22,055. About 6.5% of families and 8.1% of the population were below the poverty line, including 9.7% of those under age 18 and 8.8% of those ages 65 or over.



## 5. Assets

Through this RFI, the City of Columbus seeks to facilitate a public-private partnership whereby the City grants access to certain assets to a private company partner that will design and manage the *Wireless Columbus* system.

To that end, the City of Columbus is providing a detailed account of assets that it believes may be of value in this proposed public-private collaborative relationship. The infrastructure listed herein is not intended to be an exhaustive list of useful infrastructure, and Respondents should consider these assets in their Submission. Respondents should note that one or more of these assets may have restrictions on their use which could preclude their availability for this public-private partnership; the City of Columbus is undertaking further due diligence to determine which assets would be so precluded.

- Street Light Poles
- Traffic Signal Poles
- Utility Poles
- City-owned Telecommunications Conduit
- City-owned Communications Towers
- City-owned Buildings
- Other Structures and Interests

## 6. Requirements

This section details requirements for partnership with the City of Columbus for licensed use of *Wireless Columbus*.

### 6.1. Proposed Organization & Business Agreement

- a. The Respondent shall describe at a high level its ideas for compensating the City of Columbus for the use of the *Wireless Columbus* system. Creative solutions are encouraged in conjunction with one or more of the following preferred forms of compensation. Please keep agreement term lengths to five (5) years.
  - i. Lease – A traditional lease agreement set to a predetermined period with monthly payments would be a standardized way of reimbursement.
  - ii. Revenue Sharing – In exchange for using the *Wireless Columbus* system, the wireless provider would share with the City of Columbus revenue collected from usage of the public access wireless system.
- b. The Respondent may provide sample contracts, for City of Columbus consideration, that could be used to govern the requested partnership described in its Submission.

### 6.2. Architecture

#### 6.2.1. Systems

*Wireless Columbus* should contain the following networks:

- a. Public Safety Wireless Network – A municipal nomadic and fixed mesh wireless network for use by the City of Columbus use including first responders and other public safety agencies.
- b. Public Access Wireless Network – An unlicensed nomadic and fixed mesh wireless access network for consumer use by businesses, residents and visitors to Columbus. It should be noted that this solution may also support either a licensed or unlicensed backhaul component to the network.

Pricing estimates for hardware components of the aforementioned network components is welcomed and encouraged.

#### 6.2.2. Coverage

- a. It is the vision of the City of Columbus that both public safety and public access networks have at least 95% coverage of the City of Columbus.

#### 6.2.3. Network

- a. The Respondent shall describe at high level its existing network infrastructure including:

- i. The location of its network operations center (NOC)
  - ii. The location of any point-of-presence (POP) locations in Indiana
  - iii. Existing portfolio of services
  - iv. Number of business and residential customers
  - v. Bandwidth capacity to the Internet and any NAP connections
  - vi. Existing hardware service level support
- b. The Respondent shall describe at a high level how the *Wireless Columbus* system would be integrated into their existing infrastructure.

### **6.3. Operations**

A private partner will be responsible for all capacity planning, customer service, network operations, installation, maintenance and emergency response operations associated with the operation of the *Wireless Columbus* system.

#### **6.3.1. Capacity Planning**

- a. The Respondent shall describe in detail its capacity planning capabilities to create and accurately manage capacity across the *Wireless Columbus* system.

#### **6.3.2. Customer Service**

- a. The Respondent shall provide Tier 1, Tier 2 and Tier 3 customer support services corresponding to public access wireless services offered. Furthermore, the Respondent shall describe at a high level its customer service capabilities detailing at a minimum an overview of staff, call center capabilities and descriptions of its tiered support structure.

#### **6.3.3. Network operations**

- a. The Respondent shall describe at a high level its capabilities for network operations to ensure that *Wireless Columbus* system is operated and managed appropriately.

#### **6.3.4. Installation**

- a. The Respondent shall describe at a high level its installation capabilities as they related to the installation of the *Wireless Columbus* system.

#### **6.3.5. Maintenance**

- a. The Selected Respondent shall be responsible for ongoing maintenance of the wireless system to ensure that *Wireless Columbus* system is kept in good repair.
- b. The Respondent shall describe at a high level its maintenance capabilities to ensure the *Wireless Columbus* system is kept in good repair.

### **6.3.6. Emergency Response**

- a. The private partner shall be responsible for repairing the wireless network in the event of damage to or destruction of the wireless network infrastructure.
- b. The Respondent shall describe at a high level its emergency response plan capabilities.

## **6.4. Service Levels**

### **6.4.1. Open Access**

The focus of partnership with Columbus is to create an open and inclusive public access wireless system, managed by a private partner, which provide public access retail wireless service not only to business and consumer customers, but also the Columbus telecommunications industry as a whole.

- a. The private partner shall provide open access to the public access wireless infrastructure to multiple unaffiliated service providers as a wholesale service.
- b. The private partner, and any service provider affiliated with the private partner, may also provide retail-branded telecommunications services over the public access wireless network.

### **6.4.2. Services & Provisioning**

- a. Respondent submissions shall include an example menu of tiered public access wireless services with sample pricing including estimated costs for any required customer premise equipment. Samples shall include nomadic as well as fixed public access wireless services.

### **6.4.3. Security**

- a. The Respondent shall describe in at a high level its existing multi-layered security architecture as well as its plans for ensuring both the physical security of wireless networks as well as the security of the data being transmitted across the wireless networks.

### **6.4.4. Privacy**

- a. The Respondent shall describe in at a high level its capabilities for protecting the privacy of customers utilizing the Wireless Columbus network including how they could to communicate privacy policies to users and how users' acceptance of the policy will be obtained.

## Exhibit A – Company References

### Respondent / Team Member Company Profile Information

*Submit a completed company profile information sheet for prime, each joint venture partner and subcontractor(s), as applicable.*

(1) Legal Name of Firm: \_\_\_\_\_

(2) Doing Business under Other Company Name? If yes, Name of Company: \_\_\_\_\_

(3) Headquarters Address, City, State, Zip Code: \_\_\_\_\_  
\_\_\_\_\_

(4) Web Site Address: \_\_\_\_\_

(5) Proposed Role: ☐ Prime ☐ Subcontractor/Sub-consultant  
☐ Joint Venture Partner ☐ Supplier or ☐ Other: \_\_\_\_\_

(6) Number of Years in Business: \_\_\_\_\_

(7) Total Number of Employees: \_\_\_\_\_

(8) Total Annual Revenues separated by last 3 full fiscal years: \_\_\_\_\_  
\_\_\_\_\_

(9) Major Services Offered as Prime Contractor: \_\_\_\_\_  
\_\_\_\_\_

(10) Subcontracted Services: \_\_\_\_\_  
\_\_\_\_\_

(11) Briefly describe your firm's strategy and approach to providing services for a client: \_\_\_\_\_  
\_\_\_\_\_

(12) Briefly describe your firm's experience in providing wireless service to communities: \_\_\_\_\_  
\_\_\_\_\_